

1 This listing of claims will replace all prior versions, and listings, of claims
2 in the application.

3
4 **Listing of Claims:**

5
6 Claim 1 (Currently amended): A method for facilitating enhanced
7 readability of a fixed digital document having multiple pages, the method
8 comprising:

9 obtaining the fixed digital document;

10 paginating the multiple pages of the fixed digital document into multiple
11 virtual pages;

12 identifying and locating lines of text within the multiple pages of the fixed
13 digital document;

14 determining whether a virtual-page boundary is coextensive with an
15 identified line of text;

16 responsive to such determining, adjusting the virtual-page boundary if the
17 boundary is coextensive with the identified line of text so that the boundary is not
18 coextensive with the identified line.

19
20 Claim 2 (Original): A method as recited in claim 1 further comprising
21 displaying a virtual page of the multiple virtual pages and doing so without
22 displaying overlap.

1 Claim 3 (Original): A method as recited in claim 1 further comprising
2 displaying virtual pages of the multiple virtual pages, wherein unrepeatd content
3 of multiple virtual pages starts at a common spatial position on the multiple virtual
4 pages.

5
6 Claim 4 (Original): A method as recited in claim 1 further comprising
7 displaying virtual pages of the multiple virtual pages, wherein a top synthetic
8 virtual-page margin is displayed so that the content of the virtual page starts at a
9 common spatial position.

10
11 Claim 5 (Original): A method as recited in claim 1, wherein the identifying
12 and locating comprises performing at least minimal OCR on content of the
13 document to locate line boundaries.

14
15 Claim 6 (Original): A method as recited in claim 1, wherein the paginating
16 comprises determining a minimum integer number of virtual pages per page of the
17 digital document while maintaining legibility, aspect ratio, and good margins.

18
19 Claim 7 (Original): A computer comprising one or more computer-
20 readable media having computer-executable instructions that, when executed by
21 the computer, perform the method as recited in claim 1.

22
23 Claim 8 (Original): A computer-readable medium having computer-
24 executable instructions that, when executed by a computer, performs the method
25 as recited in claim 1.

1
2 Claim 9 (Previously presented) A method for facilitating enhanced
3 readability of a digital document, the method comprising:

4 paginating multiple pages of a digital document into multiple virtual pages,
5 wherein the digital document is a fixed digital document;

6 placing a virtual-page boundary so that such boundary is not coextensive
7 with a line of text.

8
9 Claim 10 (Canceled)

10
11 Claim 11 (Currently amended): A method as recited in claim 9 further
12 comprising identifying and locating lines of text within the ~~one or more~~ multiple
13 pages of the digital document.

14
15 Claim 12 (Original): A method as recited in claim 9 further comprising
16 determining whether a virtual-page boundary is coextensive with a line of text.

17
18 Claim 13 (Original): A method as recited in claim 12 further comprising
19 responsive to such determining, adjusting the virtual-page boundary if the
20 boundary is coextensive with a line of text so that the boundary is not coextensive
21 with the line.

22
23 Claim 14 (Original): A method as recited in claim 9 further comprising
24 displaying a virtual page of the multiple virtual pages and doing so without
25 displaying overlap.

1
2 Claim 15 (Original): A method as recited in claim 9 further comprising
3 displaying virtual pages of the multiple virtual pages, wherein unrepeatd content
4 of multiple virtual page starts at a common spatial position on the multiple virtual
5 page.

6
7 Claim 16 (Original): A method as recited in claim 9, wherein the
8 paginating comprises determining a minimum integer number of virtual pages per
9 page of the digital document while maintaining legibility, aspect ratio, and good
10 margins.

11
12 Claim 17 (Original): A computer comprising one or more computer-
13 readable media having computer-executable instructions that, when executed by
14 the computer, perform the method as recited in claim 9.

15
16 Claim 18 (Original): A computer-readable medium having computer-
17 executable instructions that, when executed by a computer, performs the method
18 as recited in claim 9.

19
20 Claim 19 (Previously presented): A method for facilitating enhanced
21 readability of a digital document, the method comprising:

22 paginating multiple pages of the digital document into multiple virtual
23 pages, wherein the digital document is a fixed digital document;

24 displaying the virtual pages of the multiple virtual pages and doing so
25 without displaying overlap.

1
2 Claim 20 (Canceled)

3
4 Claim 21 (Original): A method as recited in claim 19, wherein the
5 paginating comprises separating the one or more pages of the digital document
6 into multiple virtual pages without splitting lines of text of the document.

7
8 Claim 22 (Original): A method as recited in claim 19, wherein the
9 paginating comprises:

10 identifying lines of text within the digital document;

11 separating the one or more pages of the digital document into multiple
12 virtual pages between lines of text.

13
14 Claim 23 (Original): A computer comprising one or more computer-
15 readable media having computer-executable instructions that, when executed by
16 the computer, perform the method as recited in claim 19.

17
18 Claim 24 (Original): A method as recited in claim 19, wherein the
19 paginating comprises determining a minimum integer number of virtual pages per
20 page of the digital document while maintaining legibility, aspect ratio, and good
21 margins.

22
23 Claim 25 (Original): A computer-readable medium having computer-
24 executable instructions that, when executed by a computer, performs the method
25 as recited in claim 19.

1
2 Claim 26 (Currently amended): A method for enhancing the readability of
3 a digital document, the method comprising:

4 paginating multiple pages of the digital document into multiple virtual
5 pages;

6 displaying the virtual pages of the multiple virtual pages, wherein
7 unpeated content of multiple virtual page starts at a common spatial position on
8 the multiple virtual page;

9 lowlighting repeated content on a virtual page, the repeated content is
10 content repeated from another virtual page.

11
12 Claim 27 (Canceled)

13
14 Claim 28 (Original): A method as recited in claim 26, wherein the
15 paginating comprises separating the one or more pages of the digital document
16 into multiple virtual pages without splitting lines of text of the document.

17
18 Claim 29 (Original): A method as recited in claim 26, wherein the
19 paginating comprises:

20 identifying lines of text within the digital document;

21 separating the one or more pages of the digital document into multiple
22 virtual pages between identified lines of text.

1 Claim 30 (Original): A method as recited in claim 26, wherein the
2 paginating comprises determining a minimum integer number of virtual pages per
3 page of the digital document while maintaining legibility, aspect ratio, and good
4 margins.

5
6 Claim 31 (Original): A computer comprising one or more computer-
7 readable media having computer-executable instructions that, when executed by
8 the computer, perform the method as recited in claim 26.

9
10 Claim 32 (Original): A computer-readable medium having computer-
11 executable instructions that, when executed by a computer, performs the method
12 as recited in claim 26.

13
14 Claim 33 (Previously presented): A method for facilitating enhanced
15 readability of a fixed digital document, the method comprising:

16 paginating multiple pages of the fixed digital document into multiple virtual
17 pages;

18 displaying one or more virtual pages of the multiple virtual pages and doing
19 so with overlap on a virtual page, wherein the overlap of one virtual page includes
20 content of the document repeated from another virtual page;

21 indicating such overlap during the displaying, wherein the content of
22 overlap is differentiated from other content.

23
24 Claim 34 (Original): A method as recited in claim 33, wherein the overlap
25 is lowlighted.

1
2 Claim 35 (Original): A method as recited in claim 33, wherein unrepeated
3 content of multiple virtual page starts at a common spatial position on the multiple
4 virtual page.

5
6 Claim 36 (Original): A method as recited in claim 33, wherein the overlap
7 is softly lowlighted.

8
9 Claim 37 (Original): A method as recited in claim 33, wherein the overlap
10 is shaded.

11
12 Claim 38 (Original): A method as recited in claim 33, wherein the overlap
13 is "grayed."

14
15 Claim 39 (Original): A method as recited in claim 33, wherein the
16 paginating comprises determining a minimum integer number of virtual pages per
17 page of the digital document while maintaining legibility, aspect ratio, and good
18 margins.

19
20 Claim 40 (Original): A computer comprising one or more computer-
21 readable media having computer-executable instructions that, when executed by
22 the computer, perform the method as recited in claim 33.

1 Claim 41 (Original): A computer-readable medium having computer-
2 executable instructions that, when executed by a computer, performs the method
3 as recited in claim 33.

4
5 Claim 42 (Previously presented): A method for facilitating the enhanced
6 readability of a digital document, the method comprising:

7 determining an integer number of virtual pages per page of the digital
8 document while maintaining legibility, aspect ratio, and good margins, wherein
9 the digital document is a fixed digital document having multiple pages;

10 paginating, accordingly, the multiple pages of the digital document into
11 multiple virtual pages.

12
13 Claim 43 (Original): A method as recited in claim 42, wherein the
14 determining determines the minimum integer number of virtual pages per page of
15 the digital document.

16
17 Claim 44 (Canceled)

18
19 Claim 45 (Original): A method as recited in claim 42 further comprising
20 displaying one or more of the virtual pages.

21
22 Claim 46 (Original): A computer-readable medium having computer-
23 executable instructions that, when executed by a computer, performs the method
24 as recited in claim 42.

1 Claim 47 (Previously presented): A reading enhancement system,
2 comprising:

3 a document obtainer configured to obtain a digital document, wherein the
4 digital document is a fixed digital document having multiple pages;

5 a virtual paginator configured to paginate the multiple pages of the digital
6 document into multiple virtual pages, the virtual pages having boundaries there
7 between;

8 a virtual-page analyzer configured to analyze the virtual page;

9 a display generator configured to generate and send the virtual pages of the
10 multiple virtual pages to a display.

11
12 Claim 48 (Original): A system as recited in claim 47, wherein the analyzer
13 is further configured to:

14 identify and locate lines of text within the one or more pages of the digital
15 document;

16 determine whether a virtual-page boundary is coextensive with an identified
17 line of text;

18 responsive to such determining, adjust the virtual-page boundary if the
19 boundary is coextensive with the identified line of text so that the boundary is not
20 coextensive with the identified line.

21
22 Claim 49 (Original): A system as recited in claim 47, wherein the analyzer
23 is further configured to produce lowlighted overlap, wherein the overlap of one
24 virtual page includes content of the document repeated from another virtual page.
25

1 Claim 50 (Original): A system as recited in claim 47, wherein the virtual
2 paginator is further configured to determine a minimum integer number of virtual
3 pages per page of the digital document while maintaining legibility, aspect ratio,
4 and good margins.

5
6 Claim 51 (Previously presented): A computer-readable medium having
7 computer-executable instructions that, when executed by a computer, performs the
8 method comprising:

9 paginating multiple pages of a digital document into multiple virtual pages,
10 wherein the digital document is a fixed digital document having multiple pages;

11 placing a virtual-page boundary so that such boundary is not coextensive
12 with an identified line of text.

13
14 Claim 52 (Previously presented): A computer-readable medium having
15 computer-executable instructions that, when executed by a computer, performs the
16 method comprising:

17 paginating multiple pages of a digital document into multiple virtual pages;

18 displaying one or more virtual pages of the multiple virtual pages and doing
19 so with lowlighted overlap, wherein the overlap of one virtual page includes
20 content of the document repeated from another virtual page.